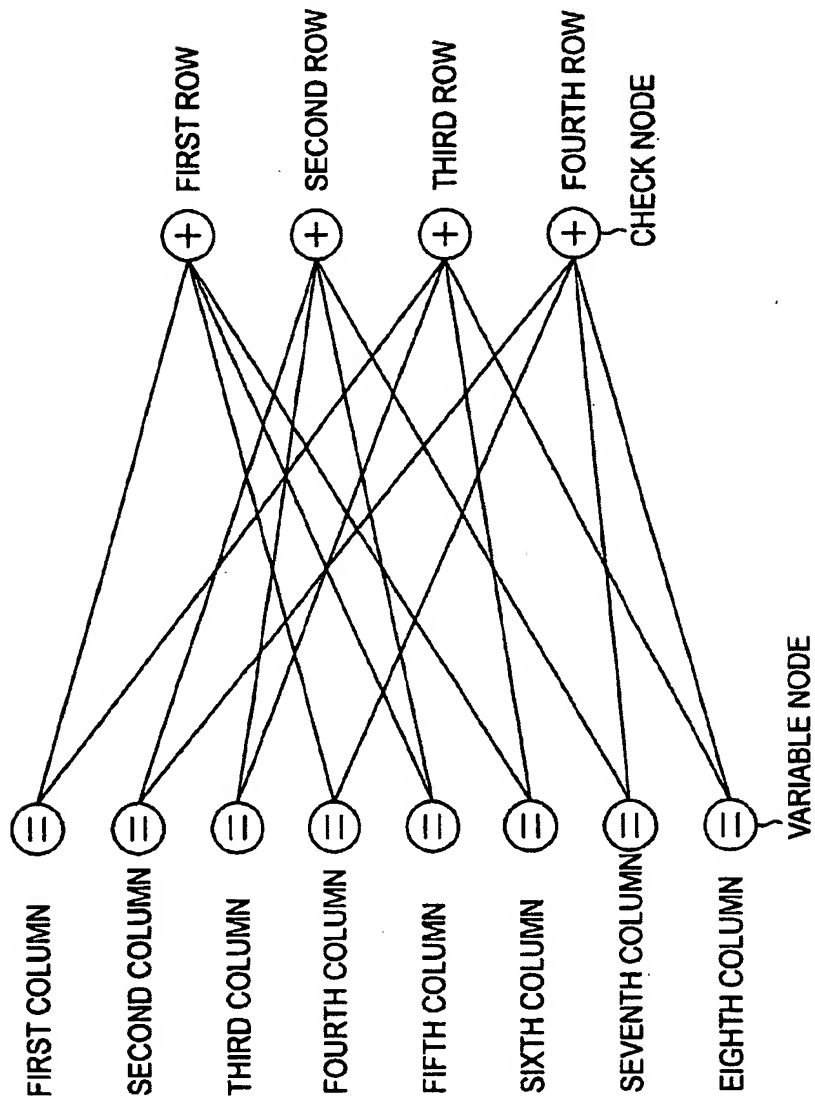


FIG. 1

$$H_{LDPC} = \begin{pmatrix} 1 & 0 & 0 & 1 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & 0 & 1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 \end{pmatrix}$$

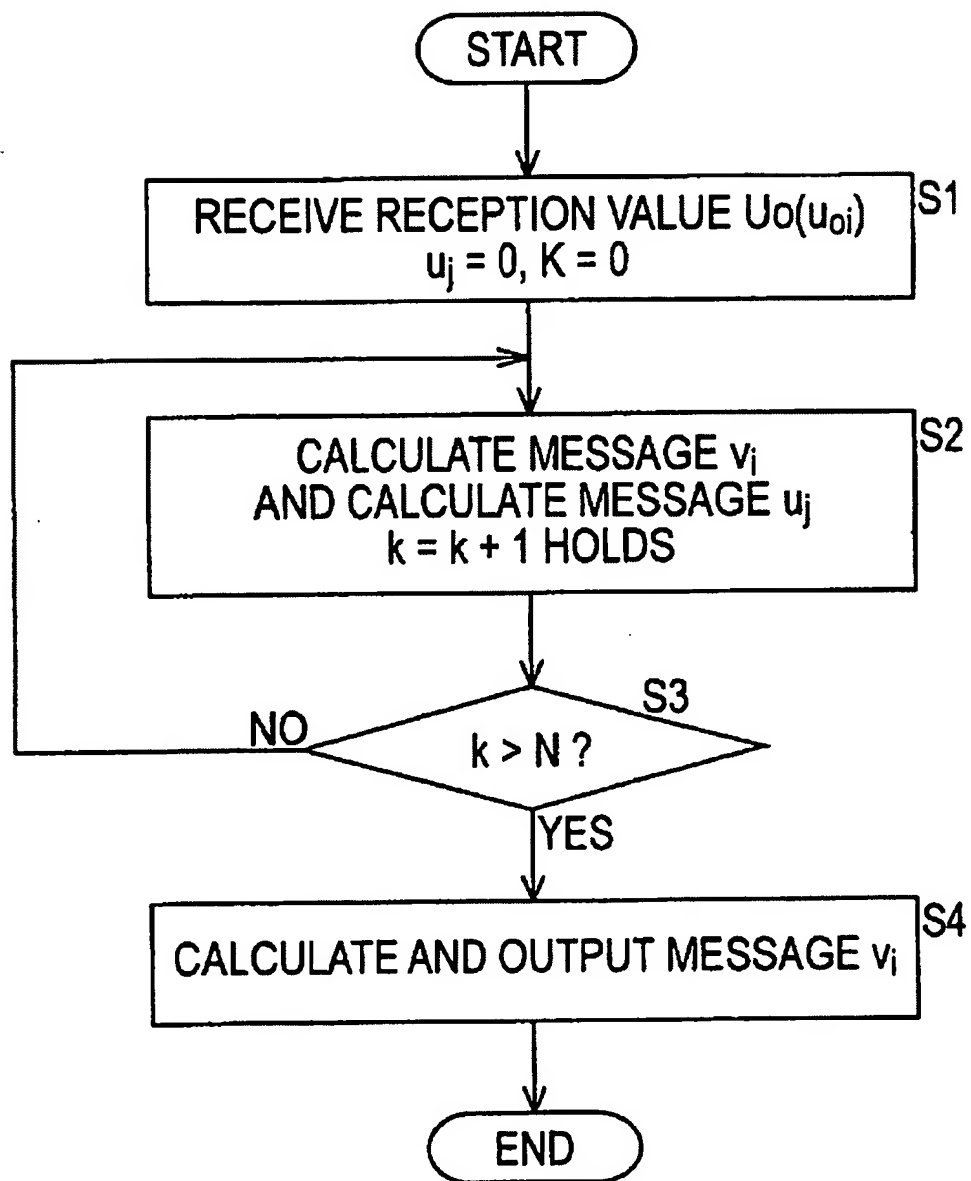
(PRIOR ART)

FIG. 2



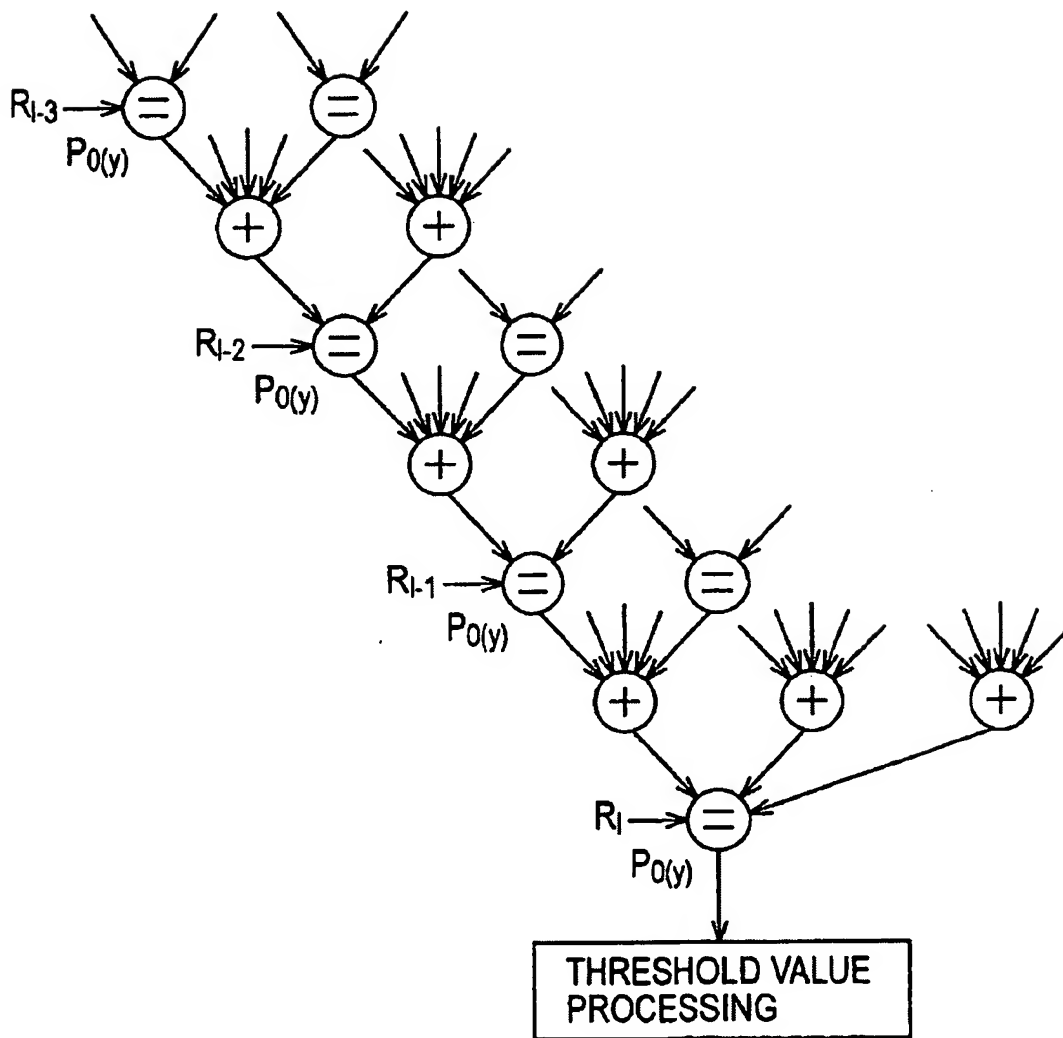
(PRIOR ART)

FIG. 3



(PRIOR ART)

FIG. 4



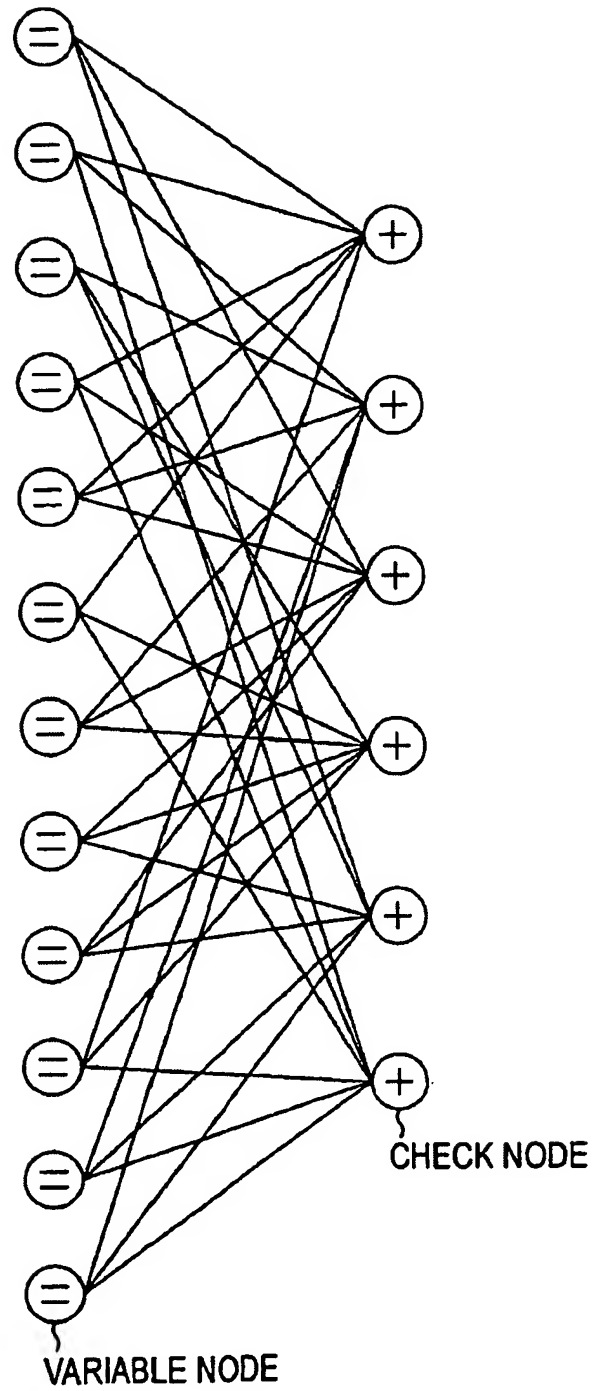
(PRIOR ART)

FIG. 5

$$H = \begin{bmatrix} 1 & 1 & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 1 & 1 & 1 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 1 \\ 1 & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 1 & 1 \end{bmatrix}$$

(PRIOR ART)

FIG. 6



(PRIOR ART)

FIG. 7

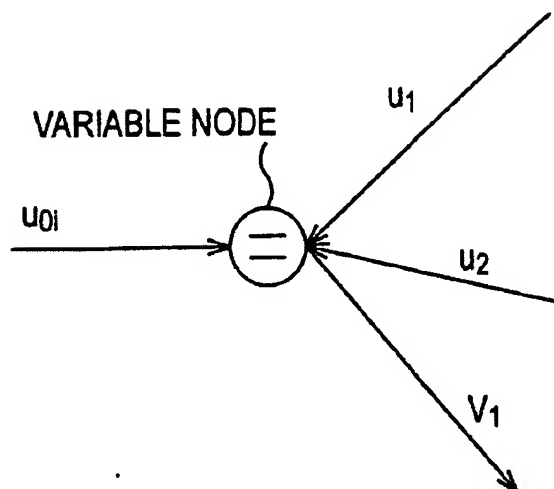
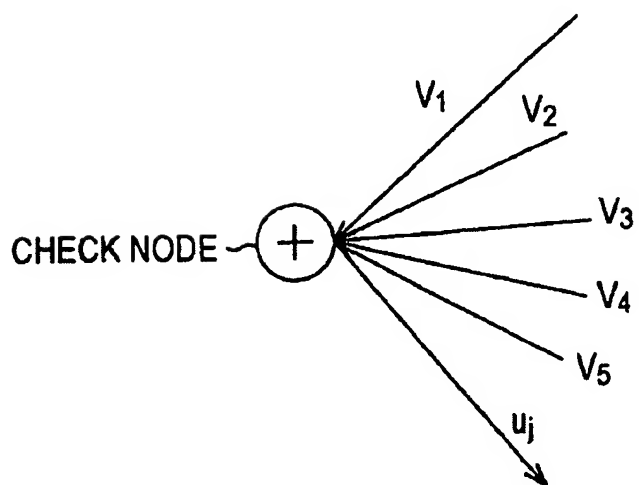


FIG. 8



(PRIOR ART)

FIG. 9

$$H = \begin{pmatrix} 1 & 1 & 1 & \dots & 1 \\ 1 & \alpha & \alpha^2 & \dots & \alpha^{n-1} \\ 1 & \alpha^2 & \alpha^2 & \dots & \alpha^{2(n-1)} \\ \vdots & \vdots & \vdots & & \vdots \\ 1 & \alpha^{2-1} & \alpha^{2(2t-1)} & \dots & \alpha^{(2t-1)(n-1)} \end{pmatrix}$$

(PRIOR ART)

FIG. 10

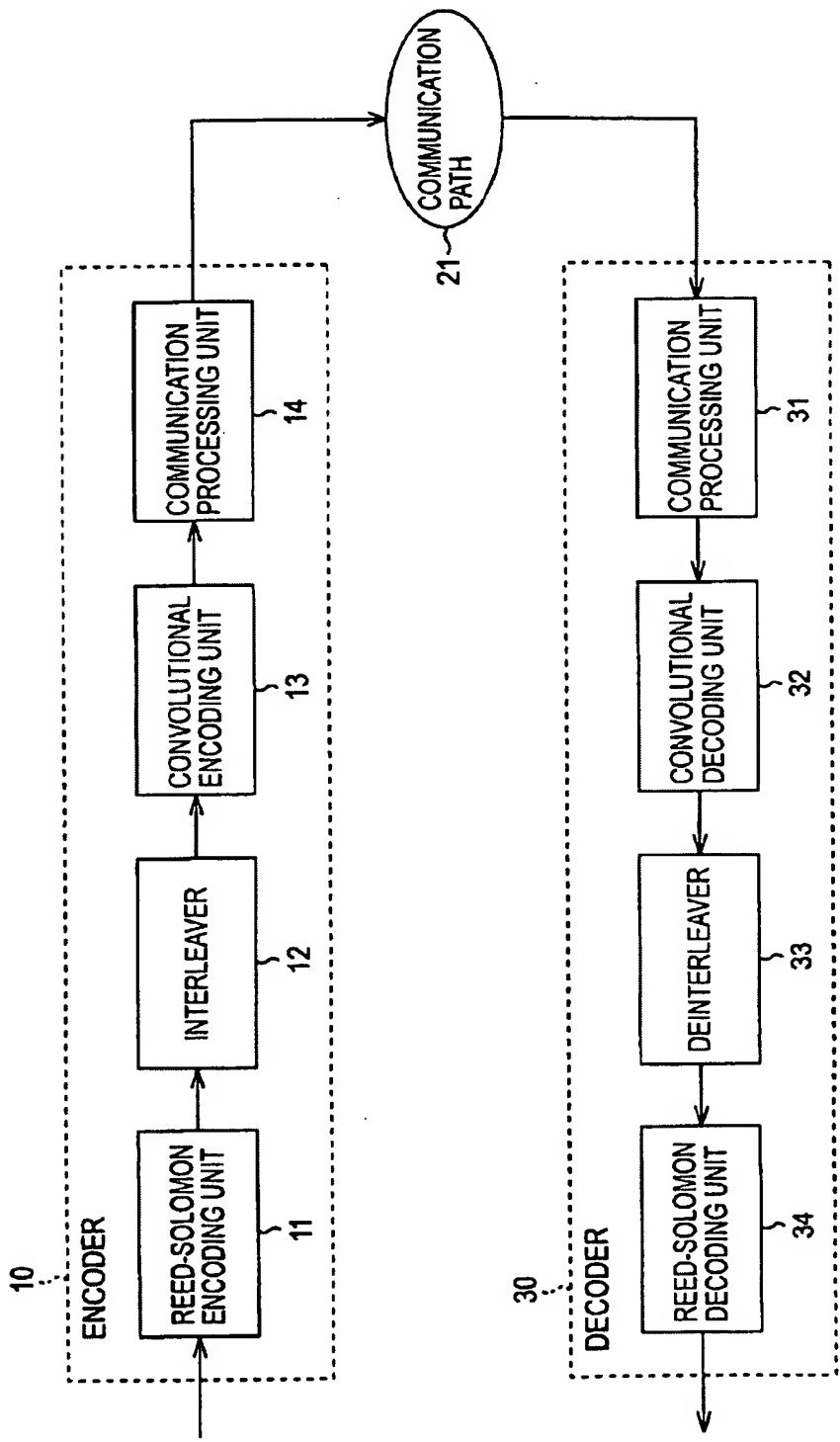
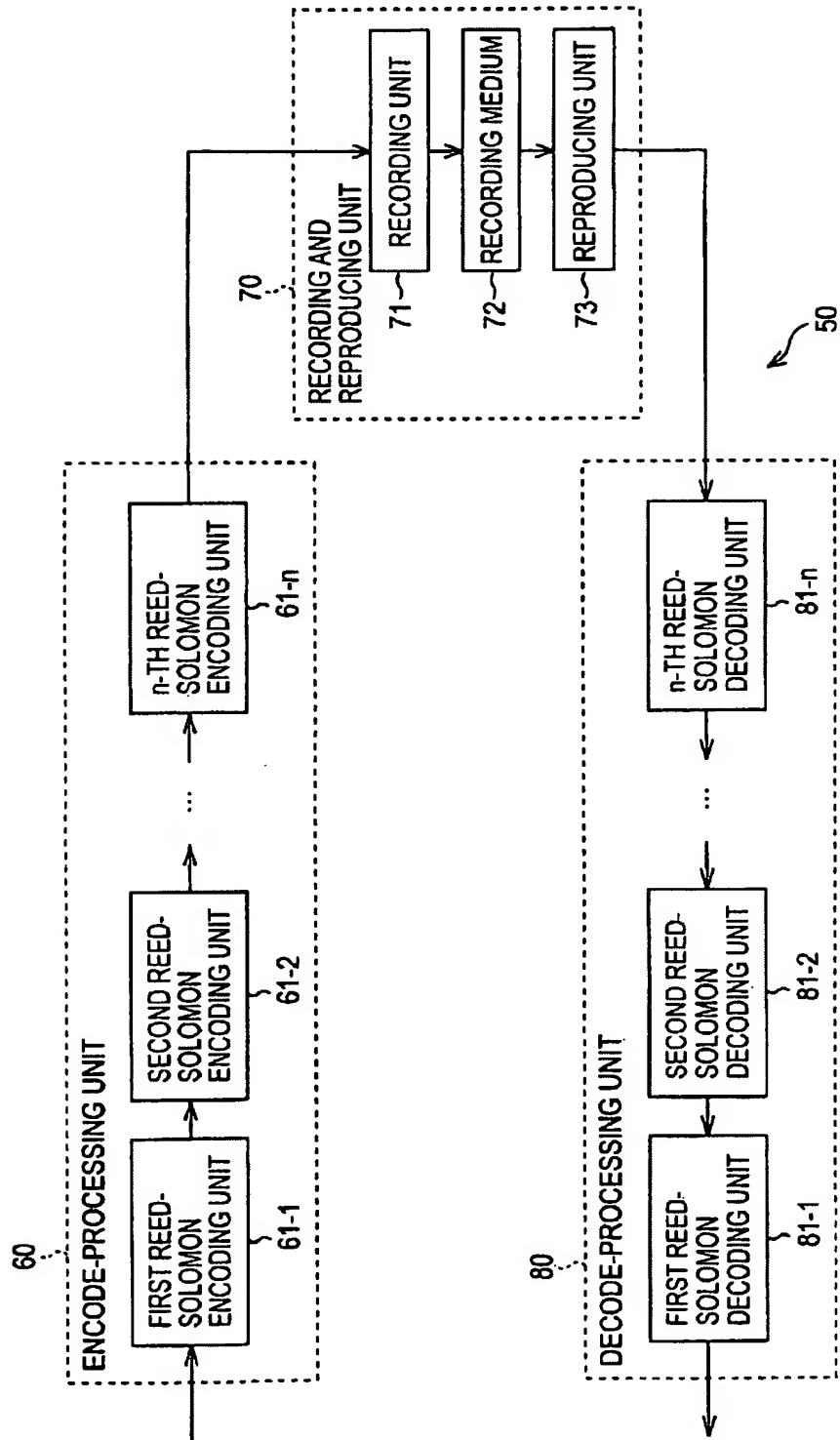


FIG. 11



(PRIOR ART)